



SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED

(MECHANICAL TESTING LABORATORY DIVISION)

ISO 9001:2015 Certified Company

TC-9238

TEST REPORT ON PRECAST SLAB

Date: 05-01-2023

Client Name: Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name: M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name: Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference: EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name: Shiprama Consulting Engineers

Technical Reference: IS 516 - 1959 RA 2018

Material description: Precast Slab 100mm thick

Date of Receipt of Sample: 05-01-2023

Date of testing: 05-01-2023

22/01/2023
Engineering Division

TEST RESULTS

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	85.00	0.415	2486.562	1.70	0.960	32.57	16.59	17.09	16.40	20.50
2	50.00	80.00	0.420	2673.803	1.60	0.960	35.22	17.94	18.48	17.74	22.17
3	50.00	75.00	0.395	2682.291	1.50	0.960	34.75	17.70	18.23	17.50	21.87

* Data specified by Contractor.

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*** End of the Report ***



T. Ganthosh

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



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(MECHANICAL TESTING LABORATORY DIVISION)

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TC-9238

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. : 07-11-2022

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyaranyapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated: 04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Receipt of Sample : 07-11-2022

Date of testing : 07-11-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

* Data specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

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PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Receipt of Sample : 07-11-2022

Date of testing : 07-11-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.40	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

* Data specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

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PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of Sample : 07-11-2022

Date of testing : 07-11-2022

TEST RESULTS

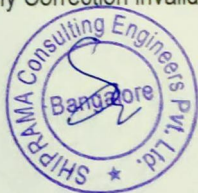
Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.25	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

* Data specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

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TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. : 08-11-2022

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

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PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of Sample : 08-11-2022

Date of testing : 08-11-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

* Data specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

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Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Receipt of Sample : 08-11-2022

Date of testing : 08-11-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.65	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Material description : Wet Mix Macadam

Date of Receipt of Sample : 08-11-2022

Date of testing : 08-11-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.35	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

* Data specified by Contractor.

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Material description : Wet Mix Macadam

Date of Receipt of Sample : 08-11-2022

Date of testing : 08-11-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.35	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

* Data specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

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Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Receipt of Sample : 08-11-2022

Date of testing : 08-11-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.75	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

* Data specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

**TEST REPORT ON GRADATION OF WET MIX MACADAM**

Date. : 07-11-20222

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyaranyapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Receipt of Sample : 07-11-20222

Date of testing : 07-11-20222

TEST RESULTS

Total Wt. of Aggregates in gms

17125

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 400-13
53	0	0	0	100	100
45	517	517	3.02	96.98	95-100
22.4	3532	4049	23.64	76.36	60-80
11.2	3152	7201	42.05	57.95	40-60
4.75	3617	10818	63.17	36.83	25-40
2.36	2861	13679	79.88	20.12	15-30
0.6	1533	15212	88.83	11.17	8-22
0.075	1649	16861	98.46	1.54	0-5

* Data specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13**Notes:-**

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TEST REPORT ON GRADATION OF WET MIX MACADAM

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Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of Sample : 07-11-20222

Date of testing : 07-11-20222

TEST RESULTS

Total Wt. of Aggregates in gms

17125

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 400-13
53	0	0	0	100	100
45	519	519	3.03	96.97	95-100
22.4	3555	4074	23.79	76.21	60-80
11.2	3184	7258	42.38	57.62	40-60
4.75	3650	10908	63.70	36.30	25-40
2.36	2915	13823	80.72	19.28	15-30
0.6	1633	15456	90.25	9.75	8-22
0.075	1449	16905	98.72	1.28	0-5

* Data specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

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Date of Receipt of Sample : 07-11-20222

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TEST RESULTS

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17125

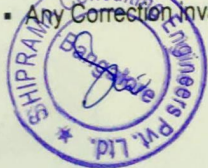
Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 400-13
53	0	0	0	100	100
45	565	565	3.30	96.70	95-100
22.4	3762	4327	25.27	74.73	60-80
11.2	3468	7795	45.52	54.48	40-60
4.75	3790	11585	67.65	32.35	25-40
2.36	2960	14545	84.93	15.07	15-30
0.6	1095	15640	91.33	8.67	8-22
0.075	1433	17073	99.70	0.30	0-5

* Data specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

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[Handwritten signature]

[Handwritten signature]
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Date. : 08-11-20222

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

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Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Receipt of Sample : 08-11-20222

Date of testing : 08-11-20222

TEST RESULTS

Total Wt. of Aggregates in gms

17125

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 400-13
53	0	0	0	100	100
45	521	521	3.04	96.96	95-100
22.4	3632	4153	24.25	75.75	60-80
11.2	3264	7417	43.31	56.69	40-60
4.75	3520	10937	63.87	36.13	25-40
2.36	2753	13690	79.94	20.06	15-30
0.6	1644	15334	89.54	10.46	8-22
0.075	1598	16932	98.87	1.13	0-5

* Data specified by Contractor.

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PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Receipt of Sample : 08-11-2022

Date of testing : 08-11-2022

TEST RESULTS

Total Wt. of Aggregates in gms

17125

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 400-13
53	0	0	0	100	100
45	528	528	3.08	96.92	95-100
22.4	3771	4299	25.10	74.90	60-80
11.2	3152	7451	43.51	56.49	40-60
4.75	3555	11006	64.27	35.73	25-40
2.36	2752	13758	80.34	19.66	15-30
0.6	1659	15417	90.03	9.97	8-22
0.075	1669	17086	99.77	0.23	0-5

* Data specified by Contractor.

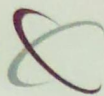
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Date. : 08-11-20222

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Receipt of Sample : 08-11-20222

Date of testing : 08-11-20222

TEST RESULTS

Total Wt. of Aggregates in gms

17125

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 400-13
53	0	0	0	100	100
45	529	529	3.09	96.91	95-100
22.4	3555	4084	23.85	76.15	60-80
11.2	3196	7280	42.51	57.49	40-60
4.75	3718	10998	64.22	35.78	25-40
2.36	2806	13804	80.61	19.39	15-30
0.6	1613	15417	90.03	9.97	8-22
0.075	1607	17024	99.41	0.59	0-5

* Data specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

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TEST REPORT ON GRADATION OF WET MIX MACADAM

Date. : 08-11-2022

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Receipt of Sample : 08-11-2022

Date of testing : 08-11-2022

TEST RESULTS

Total Wt. of Aggregates in gms

17125

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 400-13
53	0	0	0	100	100
45	535	535	3.12	96.88	95-100
22.4	3582	4117	24.04	75.96	60-80
11.2	3193	7310	42.69	57.31	40-60
4.75	3620	10930	63.82	36.18	25-40
2.36	2886	13816	80.68	19.32	15-30
0.6	1585	15401	89.93	10.07	8-22
0.075	1653	17054	99.59	0.41	0-5

* Data specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

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TEST REPORT ON FLAKINESS & ELONGATION OF WET MIX MACADAM

Date: 07-11-2022

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagar, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2386(part 1)-1963 RA 2016, MORTH Table 400-12

Material description : Wet Mix Macadam

Date of Receipt of Sample : 07-11-2022

Date of testing : 07-11-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-12
1	Flakiness Index	15.50%	Maximum allowable Flakiness & Elongation Index for Wet Mix macadam is 35%
2	Elongation Index	11.15%	

Combined Flakiness & Elongation

26.65%

* Data specified by Contractor.

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**TEST REPORT ON FLAKINESS & ELONGATION OF WET MIX MACADAM**

Date. : 07-11-2022

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayana, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2386(part 1)-1963 RA 2016, MORTH Table 400-12

Material description : Wet Mix Macadam

Date of Receipt of Sample : 07-11-2022

Date of testing : 07-11-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-12
1	Flakiness Index	16.70%	Maximum allowable Flakiness & Elongation Index for Wet Mix macadam is 35%
2	Elongation Index	12.15%	

Combined Flakiness & Elongation**28.85%**

* Data specified by Contractor.

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TEST REPORT ON FLAKINESS & ELONGATION OF WET MIX MACADAM

Date. : 08-11-2022

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyananyapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2386(part 1)-1963 RA 2016, MORTH Table 400-12

Material description : Wet Mix Macadam

Date of Receipt of Sample : 08-11-2022

Date of testing : 08-11-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-12
1	Flakiness Index	17.40%	Maximum allowable Flakiness & Elongation Index for Wet Mix macadam is 35%
2	Elongation Index	11.25%	
Combined Flakiness & Elongation		28.65%	

* Data specified by Contractor.

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TEST REPORT ON FLAKINESS & ELONGATION OF WET MIX MACADAM

Date. : 08-11-2022

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No. 28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated: 04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS: 2386 (part 1)-1963 RA 2016, MORTH Table 400-12

Material description : Wet Mix Macadam

Date of Receipt of Sample : 08-11-2022

Date of testing : 08-11-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-12
1	Flakiness Index	17.60%	Maximum allowable Flakiness & Elongation Index for Wet Mix macadam is 35%
2	Elongation Index	12.30%	

Combined Flakiness & Elongation 29.90%

* Data specified by Contractor.

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**TEST REPORT ON AGGREGATE IMPACT VALUE OF WET MIX MACADAM**

Date. : 07-11-2022

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Receipt of Sample : 07-11-2022

Date of testing : 07-11-2022

TEST RESULTS

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	386	375	380	22.18
2	Weight of aggregate passing 2.36 mm sieve after the test = W_2 g	84	86	83	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	302	289	297	
4	Aggregate Impact value = percent fines	21.76	22.93	21.84	
	$100 * (W_2/W_1) \%$				

* Data specified by Contractor.

Remarks: Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%**Notes:-**

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TEST REPORT ON BITUMEN CONTENT AND GRADATION FOR DENSE GRADED BITUMINOUS MACADAM

Date. : 04-12-2022

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

Location : Coffee Board Layout

Source of Sample : At Site

Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, AASHTO T 164 & AASHTO T 30 & MORTH

Material description : Dense Graded Bituminous Macadam

Date of Receipt of Sample : 04-12-2022

Date of testing : 04-12-2022

TEST RESULTS

BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	476	477.6
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	24	22.40
7. Bitumen content in %	4.80	4.48
8. Average	4.64	



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Total Wt. of Aggregates in gms

476

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-10
37.5	0	0	0	100	100
26.5	32.5	32.5	6.83	93.17	90 - 100
19	51.6	84.1	17.67	82.33	71 - 95
13.2	36.8	120.9	25.40	74.60	56 - 80
4.75	125.3	246.2	51.72	48.28	38 - 54
2.36	68.3	314.5	66.07	33.93	28 - 42
0.3	85.6	400.1	84.05	15.95	7 - 21
0.075	48.9	449	94.33	5.67	2 - 8

Total Wt. of Aggregates in gms

477.6

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-10
37.5	0	0	0	100	100
26.5	33.5	33.5	7.01	92.99	90 - 100
19	58.5	92	19.26	80.74	71 - 95
13.2	36.1	128.1	26.82	73.18	56 - 80
4.75	129.6	257.7	53.96	46.04	38 - 54
2.36	62.5	320.2	67.04	32.96	28 - 42
0.3	82.4	402.6	84.30	15.70	7 - 21
0.075	53.6	456.2	95.52	4.48	2 - 8

* Data specified by Contractor.

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TEST REPORT ON GRADATION

Date. : 03-12-2022

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

Location : Coffee Board Layout

Source of Sample : At Site

Technical Reference : IS 2720 (Part-4)- 1985 RA 2016, MORTH Table 500-10

Material description : Dense Graded Bituminous Macadam

Date of Receipt of Sample : 03-12-2022

Date of testing : 03-12-2022

TEST RESULTS

Total Wt. of Aggregates in gms 13124

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-10
37.5	0	0	0	100	100
26.5	492	492	3.75	96.25	90 - 100
19	2351	2843	21.66	78.34	71 - 95
13.2	2572	5415	41.26	58.74	56 - 80
4.75	2643	8058	61.40	38.60	38 - 54
2.36	1384	9442	71.94	28.06	28 - 42
0.3	2389	11831	90.15	9.85	7 - 21
0.075	643	12474	95.05	4.95	2 - 8

* Data specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-10, Grading II

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TEST REPORT ON AGGREGATE IMPACT VALUE

Date. : 03-12-2022

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyaranyapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2386 (Part-4)- 1963 RA 2016, MORTH table 500-10

Material description : Dense Graded Bituminous Macadam

Date of Receipt of Sample : 03-12-2022

Date of testing : 03-12-2022

TEST RESULTS

SI No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	387	389	385	23.52
2	Weight of aggregate passing 2.36 mm sieve after the test = W_2 g	91	90	92	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	296	299	293	
4	Aggregate Impact value = percent fines	23.51	23.14	23.90	
	$100 * (W_2/W_1)\%$				

* Data specified by Contractor.

Remarks : Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27%

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TEST REPORT ON AGGREGATE IMPACT VALUE

Date. : 03-12-2022

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2386 (Part-4)- 1963 RA 2016, MORTH table 500-10

Material description : Dense Graded Bituminous Macadam

Date of Receipt of Sample : 03-12-2022

Date of testing : 03-12-2022

TEST RESULTS

SI No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	387	389	385	23.52
2	Weight of aggregate passing 2.36 mm sieve after the test = W_2 g	91	90	92	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	296	299	293	
4	Aggregate Impact value = percent fines	23.51	23.14	23.90	
	$100 * (W_2/W_1) \%$				

* Data specified by Contractor.

Remarks : Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27%

Notes:-

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DETERMINATION OF RATE OF SPREAD PRIME COAT

Date. : 03-12-2022

*Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayana, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Date of testing : 03-12-2022

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	mt	0.45 X 0.45	0.45 X 0.45
Area of Plate (a)	Sq.m	0.2025	0.2025
Initial Wt of empty Plate (b)	Kg	1.628	1.625
Final weight of plate after application of prime /Tack Coat (c)	Kg	1.767	1.764
Weight of Prime/Tack Coat (d=c-b)	Kg	0.1390	0.1390
Rate of spread of prime /tack coat	kg/Sq.m	0.686	0.686
Average	kg/Sq.m	0.686	
Specified Limit	kg/Sq.m	0.60 Kg/sq.m	

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TEST REPORT ON FLAKINESS & ELONGATION

Date. : 03-12-2022

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyaranyapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated: 04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2386(part 1)-1963 RA 2016, MORTH Table 400-13

Material description : Dense graded Bituminous Macadam

Date of Receipt of Sample : 03-12-2022

Date of testing : 03-12-2022

TEST RESULTS

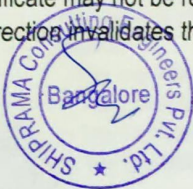
Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Flakiness Index	15.75%	Maximum allowable Flakiness & Elongat Dense graded Bituminous Macadam is 35%
2	Elongation Index	12.00%	

Combined Flakiness & Elongation 27.75%

* Data specified by Contractor.

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TEST REPORT ON SPECIFIC GRAVITY AND WATER ABSORPTION

Date. : 03-12-2022

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2386 (Part-4)- 1963 RA 2016, MORTH Table 500-10

Material description : Dense Graded Bituminous Macadam

Date of Receipt of Sample : 03-12-2022

Date of testing : 03-12-2022

TEST RESULTS

Total Wt. of Sample = 2000 gms

Sl. No.	Description	Notation	Test Result	
			Trail 1	Trail 2
1	Weight of Aggregate Suspended in water with the Basket (in gms)	A1	3725.0	3724.0
2	Weight of Empty Basket suspended in Water (in gms)	A2	2472.0	2471.0
3	Weight of Saturated aggregate in water (in gms) = (A1-A2)	A	1253.0	1253.0
4	Weight of saturated surface dry aggregate in air (in gms)	B	2010	2009
5	Weight of oven dry Aggregate (in gms)	C	1998.0	1999.0

Result : 1. Specific gravity = $(C/B-A)$ 2.64 2.64

2. Water Absorption in Percentage = $(B-C*100/C)$ 0.60 0.50

* Data specified by Contractor.

Remarks: Maximum allowable Aggregate Water absorption value for Dense Graded Bituminous Macadam is 2.0%

Notes:-

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TEST REPORT ON BITUMEN

Date. :03-12-2022

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated: 04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 73 -2013

Material description : VG 30 Bitumen

Date of Receipt of Sample : 03-12-2022

Date of testing : 03-12-2022

TEST RESULTS

The results of the tests conducted on the bitumen sample using for Bituminous Macadam

Sl.No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 °C, 1/10 mm	56	Min 45
2	Softening point, °C	48	Min. 47
3	Ductility at 27 °C, cm	> 100	Min. 40
4	Flash Point, °C	364	Min. 220

* Data specified by Contractor.

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**SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED**
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TEST REPORT ON STABILITY OF MIX

Date. : 03-12-2022

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

Location : Coffee Board Layout

PMC Name : Shiprama Consulting Engineers

Technical Reference : MORTH Table 500-11

Material description : Dense Graded Bituminous Macadam

Date of Receipt of Sample : 03-12-2022

Date of testing : 03-12-2022

TEST RESULTS

Sl.No	Description	Test Result		Requirement as per MORTH (Table 500-11)
		Trail 1	Trail 2	
1	Marshal Stability, Kn	9.91	9.78	9 Kn (min)
2	Marshal flow, mm	2.63	2.74	2 - 4
3	Percent air voids in Mix	3.64	3.84	3 - 5
4	Percent voids in mineral aggregates	11.73	11.61	10-12
5	Percent voids filled with Bitumen	70.12	70.36	65 - 75
6	Density, g/cc	2.27	2.28	-

* Data specified by Contractor.

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TEST REPORT ON BITUMEN CONTENT AND GRADATION FOR BITUMINOUS CONCRETE

Date. : 27-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakar Nagar, Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No. 28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyananyapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated: 04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, AASHTO T 164 & AASHTO T 30 & MORTH

Material description : Bituminous Concrete

Date of Receipt of Sample : 27-01-2023

Date of testing : 27-01-2023

TEST RESULTS

BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	468.5	469.5
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	31.50	30.50
7. Bitumen content in %	6.30	6.10
8. Average	6.20	



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Total Wt. of Aggregates in gms

468.5

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	29.3	29.3	6.25	93.75	90- 100
9.5	64.1	93.4	19.94	80.06	70 - 88
4.75	82.5	175.9	37.55	62.45	53 - 71
2.36	55.3	231.2	49.35	50.65	42 - 58
1.18	41.2	272.4	58.14	41.86	34 - 48
0.6	27.5	299.9	64.01	35.99	26 - 38
0.3	48.7	348.6	74.41	25.59	18 - 28
0.15	35.2	383.8	81.92	18.08	12 - 20
0.075	44.2	428	91.36	8.64	4 - 10

Total Wt. of Aggregates in gms

469.5

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	31.2	31.2	6.65	93.35	90- 100
9.5	44.5	75.7	16.12	83.88	70 - 88
4.75	85.6	161.3	34.36	65.64	53 - 71
2.36	63.4	224.7	47.86	52.14	42 - 58
1.18	78.9	303.6	64.66	35.34	34 - 48
0.6	25.6	329.2	70.12	29.88	26 - 38
0.3	33.4	362.6	77.23	22.77	18 - 28
0.15	22.8	385.4	82.09	17.91	12 - 20
0.075	56.3	441.7	94.08	5.92	4 - 10

* Data specified by Contractor.

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TEST REPORT ON BITUMEN CONTENT AND GRADATION FOR BITUMINOUS CONCRETE

Date. : 30-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakar Nagar, Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyaranyapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, AASHTO T 164 & AASHTO T 30 & MORTH

Material description : Bituminous Concrete

Date of Receipt of Sample : 30-01-2023

Date of testing : 30-01-2023

TEST RESULTS

BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	467.5	471.5
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	32.50	28.50
7. Bitumen content in %	6.50	5.70
8. Average	6.10	



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Total Wt. of Aggregates in gms

467.5

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	29.7	29.7	6.35	93.65	90- 100
9.5	65.7	95.4	20.41	79.59	70 - 88
4.75	92.5	187.9	40.19	59.81	53 - 71
2.36	81.9	269.8	57.71	42.29	42 - 58
1.18	37.6	307.4	65.75	34.25	34 - 48
0.6	27.6	335	71.66	28.34	26 - 38
0.3	41.6	376.6	80.56	19.44	18 - 28
0.15	27.7	404.3	86.48	13.52	12 - 20
0.075	36.5	440.8	94.29	5.71	4 - 10

Total Wt. of Aggregates in gms

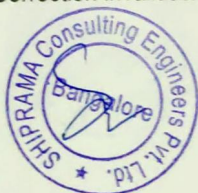
471.5

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	35.5	35.5	7.53	92.47	90- 100
9.5	47.6	83.1	17.62	82.38	70 - 88
4.75	86.7	169.8	36.01	63.99	53 - 71
2.36	71.6	241.4	51.20	48.80	42 - 58
1.18	66.8	308.2	65.37	34.63	34 - 48
0.6	36.1	344.3	73.02	26.98	26 - 38
0.3	36.7	381	80.81	19.19	18 - 28
0.15	31.6	412.6	87.51	12.49	12 - 20
0.075	37.7	450.3	95.50	4.50	4 - 10

* Data specified by Contractor.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

**TEST REPORT ON BITUMEN CONTENT AND GRADATION FOR BITUMINOUS CONCRETE**

Date. : 01-02-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakar Nagar, Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, AASHTO T 164 & AASHTO T 30 & MORTH

Material description : Bituminous Concrete

Date of Receipt of Sample : 01-02-2023

Date of testing : 01-02-2023

TEST RESULTS**BITUMEN CONTENT**

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	467	471.5
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	33.00	28.50
7. Bitumen content in %	6.60	5.70
8. Average	6.15	



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Total Wt. of Aggregates in gms

467

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	29	29	6.21	93.79	90- 100
9.5	65.4	94.4	20.21	79.79	70 - 88
4.75	92.3	186.7	39.98	60.02	53 - 71
2.36	81.5	268.2	57.43	42.57	42 - 58
1.18	37.4	305.6	65.44	34.56	34 - 48
0.6	27.8	333.4	71.39	28.61	26 - 38
0.3	41.5	374.9	80.28	19.72	18 - 28
0.15	27.5	402.4	86.17	13.83	12 - 20
0.075	36.6	439	94.00	6.00	4 - 10

Total Wt. of Aggregates in gms

471.5

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	35.3	35.3	7.49	92.51	90- 100
9.5	47.4	82.7	17.54	82.46	70 - 88
4.75	86.5	169.2	35.89	64.11	53 - 71
2.36	71.6	240.8	51.07	48.93	42 - 58
1.18	66.8	307.6	65.24	34.76	34 - 48
0.6	36.3	343.9	72.94	27.06	26 - 38
0.3	36.7	380.6	80.72	19.28	18 - 28
0.15	31.5	412.1	87.40	12.60	12 - 20
0.075	37.7	449.8	95.40	4.60	4 - 10

* Data specified by Contractor.

Notes:-

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Assistant Executive Engineer
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BBMP, Bangalore

**TEST REPORT ON AGGREGATE IMPACT VALUE**

Date. : 26-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyaranyapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2386 (Part-4)- 1963 RA 2020, MORTH Table 500-17

Material description : Bituminous Concrete

Date of Receipt of Sample : 26-01-2023

Date of testing : 26-01-2023

TEST RESULTS

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	376	375	378	21.52
2	Weight of aggregate passing 2.36 mm sieve after the test = W_2 g	82	80	81	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	295	297	
4	Aggregate Impact value = percent fines	21.81	21.33	21.43	
	$100 * (W_2/W_1) \%$				

* Data specified by Contractor.

Remarks: Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%

Notes:-

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TEST REPORT ON AGGREGATE IMPACT VALUE

Date. : 28-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2386 (Part-4)- 1963 RA 2020, MORTH Table 500-17

Material description : Bituminous Concrete

Date of Receipt of Sample : 28-01-2023

Date of testing : 28-01-2023

TEST RESULTS

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	374	376	377	21.56
2	Weight of aggregate passing 2.36 mm sieve after the test = W_2 g	80	82	81	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	294	296	
4	Aggregate Impact value = percent fines	21.39	21.81	21.49	
	$100 * (W_2/W_1)\%$				

* Data specified by Contractor.

Remarks: Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%

Notes:-

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[Signature]

[Signature]
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

**TEST REPORT ON AGGREGATE IMPACT VALUE**

Date. : 31-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2386 (Part-4)- 1963 RA 2020, MORTH Table 500-17

Material description : Bituminous Concrete

Date of Receipt of Sample : 31-01-2023

Date of testing : 31-01-2023

TEST RESULTS

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	381	383	21.59
2	Weight of aggregate passing 2.36 mm sieve after the test = W_2 g	84	81	82	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	296	300	301	
4	Aggregate Impact value = percent fines	22.11	21.26	21.41	
	$100 * (W_2/W_1) \%$				

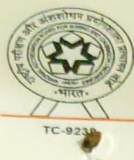
* Data specified by Contractor.

Remarks: Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%**Notes:-**

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BBMP, Bangalore



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TEST REPORT ON GRADATION

Date: :26-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagar, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayana, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2720 (Part-4)- 1985 RA 2020, MORTH Table 500-17

Material description : Bituminous Concrete

Date of Receipt of Sample :26-01-2023

Date of testing :26-01-2023

TEST RESULTS

Total Wt. of Aggregates in gms

5100

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	219	219	4.29	95.71	90 - 100
9.5	715	934	18.31	81.69	70 - 88
4.75	846	1780	34.90	65.10	53 - 71
2.36	415	2195	43.04	56.96	42 - 58
1.18	525	2720	53.33	46.67	34 - 48
0.6	549	3269	64.10	35.90	26 - 38
0.3	440	3709	72.73	27.27	18 - 28
0.15	495	4204	82.43	17.57	12 - 20
0.075	452	4656	91.29	8.71	4 - 10

* Data Specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-17

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TEST REPORT ON GRADATION

Date. : 28-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagar, Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated: 04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2720 (Part-4)- 1985 RA 2020, MORTH Table 500-17

Material description : Bituminous Concrete

Date of Receipt of Sample : 28-01-2023

Date of testing : 28-01-2023

TEST RESULTS

Total Wt. of Aggregates in gms

5100

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	217	217	4.25	95.75	90- 100
9.5	729	946	18.55	81.45	70 - 88
4.75	854	1800	35.29	64.71	53 - 71
2.36	427	2227	43.67	56.33	42 - 58
1.18	512	2739	53.71	46.29	34 - 48
0.6	535	3274	64.20	35.80	26 - 38
0.3	441	3715	72.84	27.16	18 - 28
0.15	499	4214	82.63	17.37	12 - 20
0.075	452	4666	91.49	8.51	4 - 10

* Data Specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-17

Notes:-

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED (MECHANICAL TESTING LABORATORY DIVISION)

ISO 9001:2015 Certified Company

TEST REPORT ON GRADATION

Date. : 31-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagar, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2720 (Part-4)- 1985 RA 2020, MORTH Table 500-17

Material description : Bituminous Concrete

Date of Receipt of Sample : 31-01-2023

Date of testing : 31-01-2023

TEST RESULTS

Total Wt. of Aggregates in gms

5100

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	220	220	4.31	95.69	90 - 100
9.5	724	944	18.51	81.49	70 - 88
4.75	864	1808	35.45	64.55	53 - 71
2.36	425	2233	43.78	56.22	42 - 58
1.18	515	2748	53.88	46.12	34 - 48
0.6	537	3285	64.41	35.59	26 - 38
0.3	449	3734	73.22	26.78	18 - 28
0.15	495	4229	82.92	17.08	12 - 20
0.075	456	4685	91.86	8.14	4 - 10

* Data Specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-17

Notes:-

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED

(MECHANICAL TESTING LABORATORY DIVISION)

ISO 9001:2015 Certified Company

TC-92

TEST REPORT ON BITUMEN

Date. :28-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyaranyapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 73 -2013

Material description : VG 30 Bitumen

Date of Receipt of Sample :28-01-2023

Sample

Date of testing :28-01-2023

TEST RESULTS

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl.No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 °C, 1/10 mm	59	Min 45
2	Softening point, °C	49	Min. 47
3	Ductility at 27°C, cm	> 100	Min. 40
4	Flash Point, °C	364	Min. 220

* Data specified by Contractor.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED

(MECHANICAL TESTING LABORATORY DIVISION)

ISO 9001:2015 Certified Company

TEST REPORT ON BITUMEN

Date. :26-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Shankara Nagara, Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 73 -2013

Material description : VG 30 Bitumen

Date of Receipt of Sample :26-01-2023

Date of testing :26-01-2023

TEST RESULTS

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl.No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 °C, 1/10 mm	58	Min 45
2	Softening point, °C	48	Min. 47
3	Ductility at 27°C, cm	> 100	Min. 40
4	Flash Point, °C	365	Min. 220

* Data specified by Contractor.

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*** End of the Report ***

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

TEST REPORT ON BITUMEN

Date. :31-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Shankara Nagara, Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyaranyapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 73 -2013

Material description : VG 30 Bitumen

Date of Reciept of Sample :31-01-2023

Date of testing :31-01-2023

TEST RESULTS

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl.No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ⁰ C, 1/10 mm	57	Min 45
2	Softening point, ⁰ C	47	Min. 47
3	Ductility at 27 ⁰ C, cm	> 100	Min. 40
4	Flash Point, ⁰ C	366	Min. 220

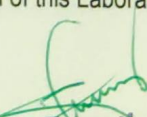
* Data specified by Contractor.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

**TEST REPORT ON SPECIFIC GRAVITY AND WATER ABSORPTION**

Date. : 28-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyaranyapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2386 (Part-4)- 1963 RA 2016, MORTH Table 500-17

Material description : Bituminous Concrete

Date of Receipt of Sample : 28-01-2023

Date of testing : 28-01-2023

TEST RESULTS

Total Wt. of Sample = 2000 gms

Sl. No.	Description	Notation	Test Result	
			Trail 1	Trail 2
1	Weight of Aggregate Suspended in water with the Basket (in gms)	A1	3738.0	3735.0
2	Weight of Empty Basket suspended in Water (in gms)	A2	2455.0	2464.0
3	Weight of Saturated aggregate in water (in gms) = (A1-A2)	A	1283.0	1271.0
4	Weight of saturated surface dry aggregate in air (in gms)	B	2007	2008
5	Weight of oven dry Aggregate (in gms)	C	1999.0	1998.0

Result : 1. Specific gravity = $(C/B-A)$ 2.76 2.71

2. Water Absorption in Percentage = $(B-C*100/C)$ 0.40 0.50

* Data specified by Contractor

Remarks: Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%

Notes:-

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

TEST REPORT ON SPECIFIC GRAVITY AND WATER ABSORPTION

Date. : 26-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyaranyapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2386 (Part-4)- 1963 RA 2016, MORTH Table 500-17

Material description : Bituminous Concrete

Date of Receipt of Sample : 26-01-2023

Date of testing : 26-01-2023

TEST RESULTS

Total Wt. of Sample = 2000 gms

Sl. No.	Description	Notation	Test Result	
			Trail 1	Trail 2
1	Weight of Aggregate Suspended in water with the Basket (in gms)	A1	3735.0	3732.0
2	Weight of Empty Basket suspended in Water (in gms)	A2	2458.0	2463.0
3	Weight of Saturarted aggregate in water (in gms) = (A1-A2)	A	1277.0	1269.0
4	Weight of saturated surface dry aggregate in air (in gms)	B	2008	2009
5	Weight of oven dry Aggregate (in gms)	C	1999.0	1998.0

Result : 1. Specific gravity = $(C/B-A)$ 2.73 2.70

2. Water Absorption in Percentage = $(B-C*100/C)$ 0.45 0.55

* Data specified by Contractor

Remarks: Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%

Notes:-

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED (MECHANICAL TESTING LABORATORY DIVISION)

ISO 9001:2015 Certified Company

TEST REPORT ON STABILITY OF MIX

Date. : 26-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : MORTH Table 500-17

Material description : Bituminous Concrete

Date of Receipt of Sample : 26-01-2023

Date of testing : 26-01-2023

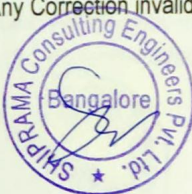
TEST RESULTS

Sl.No	Description	Test Result		Requirement as per MORTH
		Trail 1	Trail 2	
1	Marshal Stability, Kn	9.85	10.11	9 Kn (min)
2	Marshal flow, mm	2.56	2.47	2 - 4
3	Percent air voids in Mix	12.14	12.52	11 - 13
4	Percent voids in mineral aggregates	4.32	4.15	3 - 5
5	Percent voids filled with Bitumen	69.78	69.52	65 - 75
6	Density, g/cc	2.26	2.27	-

* Data specified by Contractor.

Notes:-

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Assistant Executive Engineer
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BBMP, Bangalore



TC-9238

**SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED**

(MECHANICAL TESTING LABORATORY DIVISION)

ISO 9001:2015 Certified Company

TEST REPORT ON STABILITY OF MIX

Date. : 28-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : MORTH Table 500-17

Material description : Bituminous Concrete

Date of Receipt of Sample : 28-01-2023

Date of testing : 28-01-2023

TEST RESULTS

Sl.No	Description	Test Result		Requirement as per MORTH
		Trail 1	Trail 2	
1	Marshal Stability, Kn	9.86	10.12	9 Kn (min)
2	Marshal flow, mm	2.53	2.24	2 - 4
3	Percent air voids in Mix	12.15	12.52	11 - 13
4	Percent voids in mineral aggregates	4.33	4.15	3 - 5
5	Percent voids filled with Bitumen	68.45	69.52	65 - 75
6	Density, g/cc	2.22	2.27	-

* Data specified by Contractor.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED

(MECHANICAL TESTING LABORATORY DIVISION)

ISO 9001:2015 Certified Company

TC-9238

TEST REPORT ON STABILITY OF MIX

Date. : 31-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyaranyapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : MORTH Table 500-17

Material description : Bituminous Concrete

Date of Receipt of Sample : 31-01-2023

Date of testing : 31-01-2023

TEST RESULTS

Sl.No	Description	Test Result		Requirement as per MORTH
		Trail 1	Trail 2	
1	Marshal Stability, Kn	9.84	10.15	9 Kn (min)
2	Marshal flow, mm	2.53	2.23	2 - 4
3	Percent air voids in Mix	12.16	12.51	11 - 13
4	Percent voids in mineral aggregates	4.31	4.14	3 - 5
5	Percent voids filled with Bitumen	68.44	69.53	65 - 75
6	Density, g/cc	2.23	2.25	-

* Data specified by Contractor.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED

(MECHANICAL TESTING LABORATORY DIVISION)

ISO 9001:2015 Certified Company

DETERMINATION OF RATE OF SPREAD PRIME COAT

Date. : 03-12-2022

*Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No. 28/A, 1st Main, Bullet Krishnappa Layout, Thindlu, Vidyaranya Pura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated: 04-07-2022

PMC Name : Shiprama Consulting Engineers

Date of testing : 03-12-2022

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	mt	0.45 X 0.45	0.45 X 0.45
Area of Plate (a)	Sq.m	0.2025	0.2025
Initial Wt of empty Plate (b)	Kg	1.628	1.625
Final weight of plate after application of prime /Tack Coat (c)	Kg	1.767	1.764
Weight of Prime/Tack Coat (d=c-b)	Kg	0.1390	0.1390
Rate of spread of prime /tack coat	kg/Sq.m	0.686	0.686
Average	kg/Sq.m	0.686	
Specified Limit	kg/Sq.m	0.60 Kg/sq.m	

Notes:-

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*** End of the Report ***



Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

**TEST REPORT ON FLAKINESS & ELONGATION**

Date. : 26-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru 560097

Project Name : Improvements and Asphaltting to Magadi Road from SWD Valley to Leprosy Hospital in Gandhinagara Constituency.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2386(part 1)-1963 RA 2016, MORTH Table 500-17

Material description : Bituminous Concrete

Date of Receipt of Sample : 26-01-2023

Date of testing : 26-01-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 500-17
1	Flakiness Index	14.10%	Maximum allowable Flakiness & Elongation Index for Bituminous Concrete is 30%
2	Elongation Index	10.25%	
Combined Flakiness & Elongation		24.35%	

* Data specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-17**Notes:-**

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
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***** End of the Report *****

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

**TEST REPORT ON FLAKINESS & ELONGATION**

Date. : 28-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

*Contractor Name : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements and Asphaltting to Magadi Road from SWD Valley to Leprosy Hospital in Gandhinagara Constituency.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2386(part 1)-1963 RA 2016, MORTH Table 500-17

Material description : Bituminous Concrete

Date of Receipt of Sample : 28-01-2023

Date of testing : 28-01-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 500-17
1	Flakiness Index	15.00%	Maximum allowable Flakiness & Elongation Index for Bituminous Concrete is 30%
2	Elongation Index	10.20%	
Combined Flakiness & Elongation		25.20%	

* Data specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-17**Notes:-**

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***** End of the Report *****

Engineer in Charge
Kodigehalli Sub Division
BBMP, Bangalore

**TEST REPORT ON FLAKINESS & ELONGATION**

Date. : 31-01-2023

Client Name : Executive Engineer, Bytarayanapura Division, No 2152/20, Defence Colony, Sahakara Nagara, Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop. Sri Sambashiva, No.28/A, Main, Bullet Krishnappa Layout, Thindlu, Vidyanarayapura, Bengaluru-560097

Project Name : Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2386(part 1)-1963 RA 2016, MORTH Table 500-17

Material description : Bituminous Concrete

Date of Receipt of Sample : 31-01-2023

Date of testing : 31-01-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 500-17
1	Flakiness Index	15.00%	Maximum allowable Flakiness & Elongation Index for Bituminous Concrete is 30%
2	Elongation Index	10.45%	
Combined Flakiness & Elongation		25.45%	

* Data specified by Contractor.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-17**Notes:-**

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore